Job Risk Analysis

Name(s) of Risk Team Members: J. Maraviglia, C. Rhein	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Machining Work Job Number or Job Identifier: JRA 24-07	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Fabricating a fixture from 6061 aluminum block to hold and machine top plate of anode aperture (304 SST).	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedures List (optional): Milling machine safety training checklist Approved by: E. Lessard Date: 04/02/07 Rev. #: 0	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple

Stressors (if applicable, please list all):	Reason for Revision (if applicable):	Comments:

			Before Additional Controls							After Additional Controls						
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Set aluminum block work piece in milling machine vice.	Pinch hazard	Worker experience	N	1	5	1	2	10								
Install cutting tool (fly cutter) into milling machine	Cut by sharp object	Training, worker experience	N	1	5	1	2	10								
Set speed on milling machine	Being struck by object or tool if wrong speed is selected or if tool breaks	Training, worker experience, checking/observing speed, safety glasses	N	1	5	2	2	20								
Milling operation	Being struck by object, hot metal chips, or by tool if tool breaks	Training, worker experience, safety glasses, machine guard, cutting fluid, well-maintained/sharp cutting tool, machine maintenance, checking/observing speed prior to cutting operation	N	1	5	2	2	20								
Change tool: Remove mill tool and set chuck and drill in milling machine.	Cut by sharp object	Training, worker experience	N	1	5	1	2	10								

Adjust speed on milling machine for drilling operation	Being struck by object or tool if wrong speed is selected or if tool breaks	Training, worker experience, checking/observing speed, safety glasses	N	1	5	2	2	20									
Drill holes in aluminum block	Being struck by object, hot metal chips, or by tool if tool breaks	Training, worker experience, safety glasses, machine guard, cutting fluid, well-maintained/sharp cutting tool, machine maintenance, checking/observing speed prior to cutting operation,	N	1	5	2	2	20									
Change tool: Remove drill bit and set tap in milling machine.	Cut by sharp object	Training, worker experience	N	1	5	1	2	10									
Tap holes in aluminum block – manual operation using milling machine	Being struck by object if tap snaps	Training, worker experience, safety glasses, cutting fluid, well-maintained/sharp cutting tool	N	1	5	1	2	10									
Cleaning away chips	Cut by sharp chips	Stop machine, use of hand tools such as brushes, use of gloves	N	1	5	1	2	10									

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
	Negligible	Acceptable	Moderate	Substantial	Intolerable